| Index o | of Claims |
|---------|-----------|
|         |           |

| App | lication | on/Coi | ntrol | No. |
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Applicant(s)/Patent under Reexamination

10/063,923

DOVERSPIKE ET AL. Art Unit

Examiner

Shick C. Hom

2616

Rejected Allowed

(Through numeral) Cancelled

Non-Elected N

**Appeal** 

Restricted

Interference

0 Objected

| Cle      | aim      | Date   |                 |          |          |          | $\neg$   | Claim Date |              |          |              |          |          |                 |               |          |                  | CI       | aim      | Date     |              |             |          |          |               |         |         |         |         |        |        |
|----------|----------|--|-----------------|----------|----------|----------|----------|------------|--------------|----------|--------------|----------|----------|-----------------|---------------|----------|------------------|----------|----------|----------|--------------|-------------|----------|----------|---------------|---------|---------|---------|---------|--------|--------|
| - Cla    | 2011     | +  |                 |          |          |          |          | <b>⊣</b> . |              |          |              |          |          |                 | ı             |          | <del>     </del> |          | - Date   |          |              |             |          |          |               |         |         |         |         |        |        |
| Final    | Original | 5/14/07  |                 |          |          |          |          |            |              |          | Final        | Original |          |                 |               |          |                  | •        |          |          |              | Final       | Original |          |               |         |         | ].      |         |        |        |
|          | 1        | ٦.   |                 |          |          |          |          |            |              |          |              | 51       |          |                 | П             |          |                  |          |          |          |              |             | 101      |          |               |         |         |         |         | Т      |        |
| <u> </u> | 2        |  | $\Box$          |          | $\neg$   |          |          |            |              |          |              | 52       |          |                 |               |          | $\neg$           |          |          |          | $\neg$       |             | 102      |          |               | T       | $\top$  | T       | Т       | Т.     | $\top$ |
| $\vdash$ | 3        | =  |                 | 一        | _        |          |          |            |              | _        |              | 53       |          |                 |               |          |                  | $\neg$   |          |          |              |             | 103      |          |               |         | T       |         | 1       | T      |        |
|          | 4        | =  |                 | $\dashv$ | $\neg$   |          |          |            |              |          |              | 54       |          | П               | $\neg$        |          |                  |          |          | 7        |              |             | 104      |          |               | T       | T       |         | $\top$  | $\top$ |        |
|          | 5        | =  | _               | $\neg$   |          | _        |          | $\vdash$   |              | _        |              | 55       |          |                 | $\neg$        | $\neg$   | 一                |          |          |          |              |             | 105      |          | _             | $\top$  | 1       |         | $\top$  | 1      | 1      |
| $\vdash$ | 6        | -  | $\dashv$        | 一        | $\neg$   | $\vdash$ |          | $\vdash$   |              | $\dashv$ |              | 56       |          | $\vdash$        |               | $\neg$   | $\exists$        | :        |          | 寸        | $\neg$       |             | 106      | $\neg$   |               | +       | +       | 十       | $\top$  |        | 1      |
| -        | 7        | -  | $\dashv$        | $\dashv$ | -        | $\vdash$ |          | $\vdash$   | _            |          | -            | 57       |          |                 | -             | $\neg$   | $\neg$           | 7        |          |          | ┥            |             | 107      |          | 十             | 十       | 十       | ╈       | 十       | $\top$ | $\top$ |
|          | 8        | =  |                 | -        | $\dashv$ | $\vdash$ |          | -          | -            | -        | -            | 58       | $\vdash$ | Н               | -             |          | _                | $\dashv$ | $\dashv$ |          |              |             | 108      | $\dashv$ | $\dashv$      | 十       | +       | +       | +       | +      | +      |
| $\vdash$ | 9        | =  | -               | ᅥ        | _        | $\vdash$ |          | $\vdash$   |              | -        | _            | 59       | ┢        |                 | -             | ᅥ        | $\neg$           | $\dashv$ |          |          | $\dashv$     |             | 109      | _        | _             | 十       | +       | ╁       | ╅       | +      | ╅      |
| $\vdash$ | 10       | =  | $\vdash$        | $\dashv$ |          | -        |          | $\vdash$   | -            | $\dashv$ | <u> </u>     | 60       | ┝        | -               | $\dashv$      | $\dashv$ |                  |          | -        | $\dashv$ | -            | -           | 110      | -        | +             | +       | +       | +       | +       | ╁      | +      |
| <u> </u> | 11       |  | $\dashv$        | -        |          | H        |          | H          | -            | $\dashv$ | <del> </del> | 61       | ⊢        | -               | -             | $\dashv$ | $\dashv$         |          | -        | -        | -            | -           | 111      | $\dashv$ |               | +-      | +       | ╁       | +       | ╁      | +      |
|          |          | Ŀ  |                 | -1       |          | $\vdash$ |          | -          | -            | $\dashv$ | _            | 62       | $\vdash$ | Н               | $\dashv$      |          |                  |          |          |          | $\dashv$     | -           | 112      | $\dashv$ | +             | +       | +       | +       | +       | +-     | +-     |
| <u> </u> | 12       | -  | $\vdash$        |          |          | $\vdash$ |          | $\vdash$   | $\vdash$     |          | -            | 63       | -        | -               |               |          |                  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$     |             | 113      | $\dashv$ | +             | +       | +       | ╁       | +-      | ╁      | +      |
| <u> </u> | 13       | <u> </u> -                                       |                 |          | -        | <u> </u> | -        | -          | _            | $\dashv$ | -            | 64       | $\vdash$ | $\vdash$        | $\dashv$      |          |                  | $\dashv$ |          |          | $\dashv$     | -           | 114      |          | +             | +       | +       | +       | +       | ╁      | +      |
|          | 14       | Ŀ  | $\vdash \vdash$ |          |          | $\vdash$ | <u> </u> |            | $\vdash$     | _        | -            | 65       | -        |                 | $\vdash$      | -        | $\dashv$         | $\dashv$ |          |          | $\dashv$     | <del></del> | 115      | $\dashv$ | +             | +       | ┰       | +       | ╁       | +      | +      |
| ļ        | 15       | ₩  | $\vdash$        |          |          | <u> </u> | $\vdash$ |            | <u> </u>     |          | -            | 66       | -        | -               | $\dashv$      | $\dashv$ |                  | $\dashv$ |          | -        | $\dashv$     |             | 116      | $\dashv$ | +             | +       | +       | +       | +-      | +      | +-     |
| <u> </u> | 16       | _  |                 | -        | _        | _        |          | <u> </u>   | _            | _        | -            |          | ⊢        | -               |               | $\dashv$ | $\dashv$         |          | ·        | -        | -            | ļ           | 110      | -        | -             | +       | -       | +       | +       | ╁      | +      |
| Ŀ        | 17       |  | $\dashv$        | _        | _        | L        |          |            | <u> </u>     | _        | <u> </u>     | 67       | ┡        | -               |               | -        | _                |          | _        | $\dashv$ | -            | <u> </u>    | 117      |          |               | +       | +       | - -     | +       | ╀      |        |
|          | 18       |  | $\dashv$        | _        | _        |          |          | _          |              |          |              | 68       | ļ        | Ш               |               | _        | _                |          |          | _        | _            |             | 118      |          | _             |         | 4       | +       | $\bot$  | _      | —      |
| <u></u>  | 19       |  |                 | _        |          |          |          | <u> </u>   | $oxed{oxed}$ |          | <u></u>      | 69       | _        |                 |               |          | _                |          |          | _        |              |             | 119      |          | _             | +       | 4       | +       | +       | 4      | -      |
|          | 20 .     | <u> </u>   | $\Box$          | _        |          | _        |          |            |              |          |              | 70       | <u> </u> |                 |               |          |                  |          |          | _        | _            | <u> </u>    | 120      |          | _ _           | 4       | 4       | 4       | 4       | 4      | _      |
|          | 21       | _  |                 |          |          |          |          | L          |              |          |              | 71       | <u> </u> |                 | $\Box$        | _        | _                | _        | _        | _        | _            | <u> </u>    | 121      |          |               | 4       | $\perp$ | ╀       | $\bot$  | $\bot$ | _      |
|          | 22       | L  |                 |          |          |          |          | L          |              |          |              | 72·      | ᆫ        |                 |               |          |                  |          |          |          | _            |             | 122      | _        |               | 1       | 4       | 1       | _       | 1      | _      |
|          | 23       |  |                 |          |          |          |          |            |              |          |              | 73       |          |                 |               | _        |                  | _        | ·        |          |              | L_          | 123      |          |               | ┵       |         | ᆚ       | ┵       | ┸      |        |
|          | 24       |  |                 |          |          |          |          |            |              |          |              | 74       | _        | ·               |               |          |                  |          |          |          | _            |             | 124      |          |               | $\perp$ |         | $\perp$ | $\perp$ | 1      |        |
|          | 25       |  |                 |          |          |          |          |            |              |          |              | 75       |          |                 |               |          |                  |          |          |          |              | L           | 125      |          |               | ┸       |         | L       |         |        |        |
|          | 26       |  |                 |          |          |          |          |            |              | •        |              | 76       |          |                 |               |          |                  |          |          |          |              |             | 126      | •        |               |         |         |         |         |        |        |
|          | 27       |  |                 |          |          |          |          |            |              |          |              | 77       |          |                 |               |          |                  |          |          |          |              |             | 127      |          |               | $\perp$ |         |         |         |        | _!     |
|          | 28       |  |                 |          | •        |          |          |            |              |          |              | 78       |          |                 |               |          |                  |          |          |          |              |             | 128      |          |               |         |         |         |         |        |        |
|          | 29       |  |                 |          |          |          |          |            |              |          |              | 79       |          |                 |               |          |                  | $\Box$   |          | $\neg$   |              |             | 129      |          |               |         |         |         | Т       |        |        |
|          | 30       | $\Box$   |                 |          |          |          |          |            |              |          |              | 80       |          |                 |               |          |                  | $\Box$   |          |          |              | ·           | 130      |          | $\neg \vdash$ | Т       | T       | Т       | Т       | Т      | T      |
|          | 31       |  |                 |          |          | Г        |          |            |              |          |              | 81       | Γ        |                 | $\overline{}$ |          |                  | $\neg$   |          |          |              |             | 131      |          |               | Т       | Т       | Т       | Т       | Т      |        |
|          | 32       |  |                 | ヿ        |          | П        |          |            |              | $\neg$   |              | 82       |          |                 |               |          |                  |          |          | $\neg$   | $\neg$       |             | 132      |          |               | T       | T       | Т       | T       | Τ      | T      |
|          | 33       |  | П               | 寸        |          |          |          | Г          |              |          |              | 83       | Γ        |                 |               |          |                  |          |          |          |              |             | 133      |          |               | $\top$  | $\top$  | Т       | Т       | Т      | T      |
|          | 34       |  | $\Box$          | $\neg$   |          |          |          |            |              |          |              | 84       |          |                 |               |          | .                |          |          | $\neg$   |              |             | 134      |          |               | $\top$  | $\top$  | Т       | T       | Т      | T      |
|          | 35       |  |                 | T        |          |          |          | Г          |              | $\neg$   |              | 85       |          |                 | $\Box$        | $\neg$   |                  | $\neg$   |          | $\neg$   |              |             | 135      |          |               |         | $\top$  | T       |         | T      | 1      |
|          | 36       |  | $\vdash$        | $\neg$   | $\neg$   | П        | $\Box$   |            |              | $\neg$   |              | 86       |          |                 | $\Box$        |          |                  | 一        |          | $\neg$   | $\neg$       |             | 136      | $\neg$   | $\neg$        | $\top$  | $\top$  | $\top$  | 1       | 1      | 1      |
|          | 37       |  | $\vdash$        |          | $\dashv$ | $\vdash$ | $\vdash$ |            | -            | $\dashv$ |              | 87       |          | $\vdash$        |               |          |                  | $\dashv$ |          | 一        | $\dashv$     | <u> </u>    | 137      |          |               | +       | +       | $\top$  | $\top$  | $\top$ | 1      |
| H        | 38       | $\vdash$   | $\vdash$        |          | $\dashv$ | $\vdash$ |          | $\vdash$   | $\vdash$     | $\neg$   |              | 88       | Ι.       |                 |               | $\dashv$ |                  |          |          | ヿ        | $\dashv$     |             | 138      | $\dashv$ | $\dashv$      | $\top$  | $\top$  | $\top$  | T       | $\top$ | $\top$ |
| $\vdash$ | 39       | -  | $\vdash$        | $\dashv$ |          | $\vdash$ | 4        |            | $\vdash$     |          | $\vdash$     | 89       | <u> </u> | H               |               | _        | -                | ᅥ        | $\dashv$ | $\dashv$ | $\neg$       |             | 139      |          | _             | +       | +       | $\top$  | +       | +-     | +-     |
|          | 40       | $\vdash$   | H               | ᅱ        | $\dashv$ | ⊢        | $\vdash$ |            | Н            | $\dashv$ | $\vdash$     | 90       | $\vdash$ | H               | $\dashv$      | $\dashv$ |                  |          | $\neg$   | ᅱ        | $\dashv$     | -           | 140      | 十        | $\dashv$      | +       | +       | $\top$  | +       | +      | +      |
|          | 41       | $\vdash$   | $\vdash$        | $\dashv$ |          | $\vdash$ | $\vdash$ |            | $\vdash$     | $\dashv$ | -            | 91       | -        | $\vdash$        | $\dashv$      | $\dashv$ |                  | $\dashv$ |          | $\dashv$ | $\dashv$     |             | 141      | -        | -             | ╅       | +       | +       | +       | +      | +-     |
| $\vdash$ | 42       | $\vdash$   | $\dashv$        |          | $\dashv$ | $\vdash$ | -        | $\vdash$   | $\vdash$     |          | -            | 92       | $\vdash$ | $\vdash$        | $\dashv$      |          | $\dashv$         | $\dashv$ | -        | ᅱ        | $\dashv$     |             | 142      | $\dashv$ | $\dashv$      | +       | +       | +       | +       | ╁      | +      |
| -        | 42       | <del> </del>                                     | $\dashv$        | -        | -        | $\vdash$ | -        | $\vdash$   | <del> </del> | $\dashv$ | $\vdash$     | 93       |          | H               |               |          | -                | -        | $\dashv$ |          | $\dashv$     | <u> </u>    | 143      | $\dashv$ | $\dashv$      | +       | +       | +       | +       | +      | +      |
| -        | 44       | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash$ | H        | -          | <u> </u>     | $\dashv$ | $\vdash$     | 94       | -        | $\vdash$        | $\vdash$      | $\dashv$ | -                |          |          | $\dashv$ | $\dashv$     |             | 144      | $\dashv$ | $\dashv$      | ╁       | +       | +       | +       | +      | +      |
|          | 45       | <del>                                     </del> | $\dashv$        |          |          |          | $\vdash$ | -          | $\vdash$     | $\dashv$ |              | 95       | -        | -               |               | $\dashv$ | $\dashv$         | $\dashv$ | $\dashv$ | -        | $\dashv$     |             | 145      | $\dashv$ | +             | +       | +       | +       | +       | +      | +-     |
| $\vdash$ | 45       | H  | $\dashv$        |          |          |          | $\vdash$ | -          | -            | $\dashv$ | -            | 96       | -        | $\vdash$        |               |          |                  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$     |             | 146      | $\dashv$ |               | +       | +       | +       | +-      | ╁      | +-     |
| <u></u>  | 47       | $\vdash$   | $\vdash$        | $\dashv$ |          | H        | $\vdash$ | $\vdash$   | $\vdash$     |          | -            | 97       | $\vdash$ | $\vdash$        | -             |          | $\dashv$         | $\dashv$ | $\dashv$ |          | $\dashv$     |             | 147      | $\dashv$ |               | +-      | +       | ╫       | +       | +      | +      |
|          | 48       | -  | -               |          |          |          | $\vdash$ | Ŀ          |              | $\dashv$ | -            | 98       | -        |                 |               |          |                  | $\dashv$ | -        |          | <del>-</del> | $\vdash$    | 148      |          |               | +       | +       | +-      | ╁       | +-     | +-     |
| <u></u>  | 48       | $\vdash$   | $\dashv$        |          |          | H        | -        | $\vdash$   | $\vdash$     | $\dashv$ | -            | 99       | $\vdash$ | $\vdash \dashv$ |               | $\dashv$ | $\dashv$         | $\dashv$ | $\dashv$ | -        |              | $\vdash$    | 149      |          |               | +       | +       | +.      | +       | ╁      | +      |
|          | 49<br>50 | $\vdash$   | $\vdash$        | $\dashv$ | -        | _        |          | H          | _            | $\dashv$ | -            | 100      | -        | $\vdash$        |               |          |                  | $\dashv$ | $\dashv$ | -        |              |             | 150      | $\dashv$ | $\dashv$      | +       | +       | +       | +       | ┿      | +      |
|          | 50       |  |                 |          |          | ئــــا   |          | لـــا      | L            |          |              | 100      |          |                 |               |          |                  |          |          |          |              |             | 100      |          | L             |         | L_      |         |         |        |        |